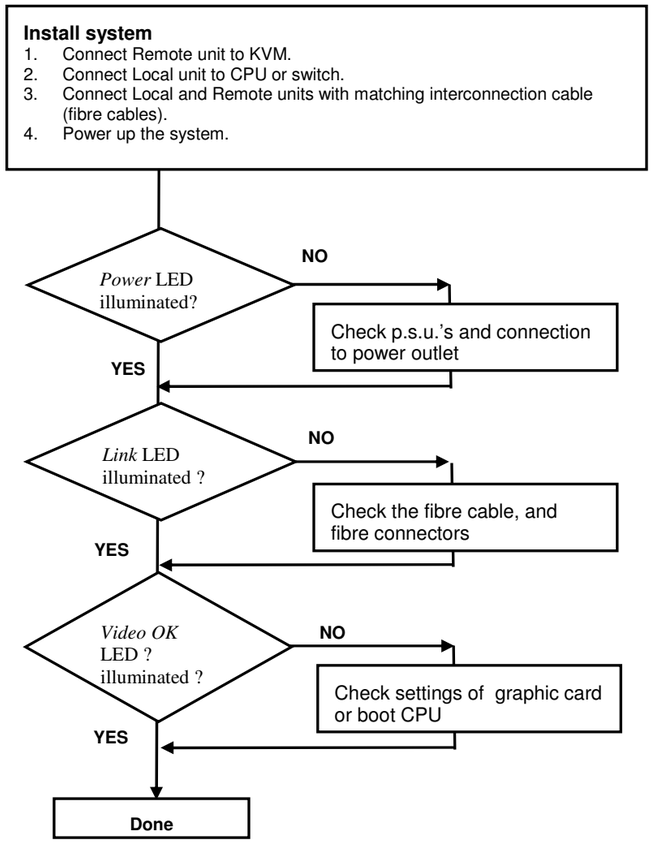
DVXI/ET-XM/-XS DVI- KVM-EXTENDER
DVXI/ET-XM/-XS DVI- KVM-EXTENDER

1 Quick Setup

This section briefly describes how to install your KVM extender system. Unless you are an experienced user, we recommend that you follow the full procedures described in the rest of this manual. .


Install system
1. Connect Remote unit to KVM.
2. Connect Local unit to CPU or switch.
3. Connect Local and Remote units with matching interconnection cable (fibre cables).
4. Power up the system.
Power LED illuminated?
NO
Check p.s.u.'s and connection to power outlet
YES
Link LED illuminated ?
NO
Check the fibre cable, and fibre connectors
YES
Video OK LED ? illuminated ?
NO
Check settings of graphic card or boot CPU
YES
Done

2 Installation

For first-time users, we recommend that you carry out a test placement, confined to a single room, before commencing full installation. This will allow you to identify and solve any cabling problems, and experiment with the KVM extender system more conveniently.

2.1 Package Contents

You should receive the following items in your extender package (all types):

- DVXi/ET KVM-Extender- pair (Local Unit + Remote Unit)
- 2x 5V DC universal power supply for the DVXi/ET - Extender
- 2x German type power cord
- User manual (Quick Setup)

K462-1W, K462-2W, K463-1W und K463-2W (additionally):

- DVI combi- connecting cable 1,8m (DVI-I male to DVI-I male, 2x PS2 male)
- PS2-keyboard-/ mouse adapter for the connection to the local Unit

K462-1U, K462-2U, K463-1U und K463-2U (additionally):

- DVI-I (1,8m) video cable (DVI-I dual link male-to-male)
- USB (1,8m) cable (USB type A to type B)

K462-2W, K462-2U, K463-2W K463-2U (additionally):

- DVI-I (1,8m) video cable (DVI-I dual link male-to-male)

If anything is missing, please contact our Technical Support.

2.2 System Setup

To install your DVXi/ET – Extender system:

1. Switch off all devices.
2. Connect your keyboard, monitor(s) and mouse to the Remote unit (depending on device type). Please ensure, to not swap Mouse- and Keyboard connector. The Keyboard connector is purple and the Mouse connector is green.
3. Using the supplied CPU KVM cable(s), connect the keyboard, monitor(s) and mouse connectors on the computer (or KVM switch). Please ensure, to not swap Mouse- and Keyboard connector. The Keyboard connector is purple and the Mouse connector is green.
4. Connect the 5V power supply to power the unit.

   Only use the power supply originally supplied with this equipment or a manufacturer-approved replacement.
5. For a dual access system, connect the keyboard, mouse and monitor for the Local console to the appropriate ports on the Local unit. The ports may also be used to feed into a KVM switch. To the local (PS2-) Keyboard-/ Mouse port you can attach a Keyboard directly or Mouse/ Keyboard together, using the delivered adapter.
6. Connect the interconnect cable (fibre cable) to the local and the remote unit.
7. Power up the system.

2.3 Interconnection Cable Requirements

To connect the Local and Remote units you will need:

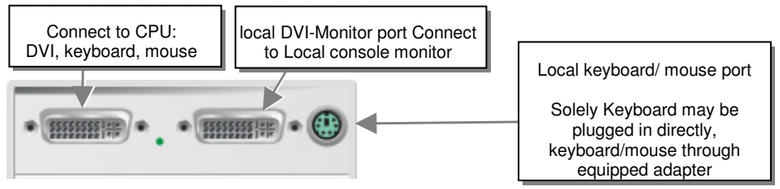
- **DVI, PS2-Keyboard, PS2-Mouse:** Connect the supplied KVM CPU cable set to your CPU (KVM.- Switch, etc.). Please ensure that the connection is tension-free! Devices K462-1W, K462-2W, K463-1W + K463-2W
- **DVI, USB-Keyboard, USB-Mouse:** Connect the supplied DVI-I cable (DVI-I to DVI-I) and the USB-cable (USB-A to USB-B) to your CPU. Please ensure that the connection is tension-free! Devices K462-1U, K462-2U, K463-1U + K463-2U
- **DVI:** Connect the supplied DVI CPU cable set to your CPU (KVM.- Switch, etc.). Please ensure that the connection is tension-free! Devices K462-2W, K462-2U, K463-2W und K463-2U
- **Fibre Cables:**
  - **Multimode:** Two fibers 50µm or 62.5µm. E.g. I-V(ZN)H 2G50 (In house patch cable)or I-V(ZN)HH 2G62,5 (In house Breakout cable) or I/AD(ZN)H 4G50 (in house OR outdoor Breakout cable, stress resistant) or A/DQ(ZN)B2Y 4G62,5 (outdoor cable, stress resistant with protection against animal biting) All notations acc. VDE specification.
  - **Singlemode:** Two fibers 9µm. E.g. I-V (ZN)H 2E9 (In house patch cable) or I-V(ZN)HH 2E9 (In house Breakout cable) or I/AD(ZN)H 4E9 (in house OR outdoor Breakout cable, stress resistant) or A/DQ(ZN)B2Y 4G9 (outdoor cable, stress resistant with protection against animal biting) All notations acc. VDE specification.

A point to point connection is required. Having one or more patch panels in the line is possible and allowed. Not allowed is a connection from the fibre link interface to any other products, especially telecommunications or network equipment.

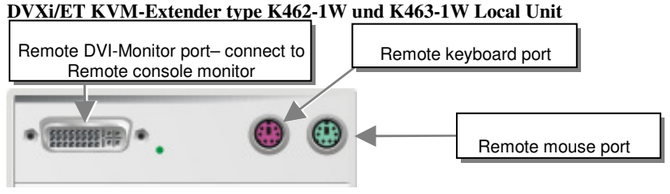
- **Power Supply**
  Connect the supplied 5V/DC power supplies to the ***Plug*** terminal on the rear of both Local and Remote units.

3 Device view (depending on device type)

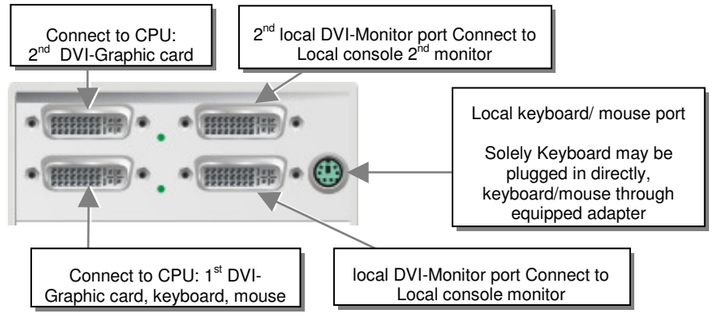
Please see the manual for audio device views.


Connect to CPU: DVI, keyboard, mouse
local DVI-Monitor port Connect to Local console monitor
Local keyboard/ mouse port
Solely Keyboard may be plugged in directly, keyboard/mouse through equipped adapter

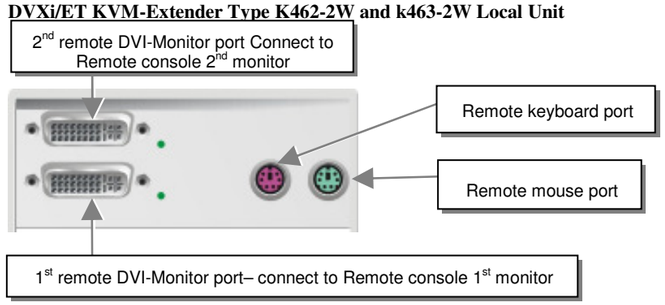
DVXi/ET KVM-Extender type K462-1W und K463-1W Local Unit



DVXi/ET KVM-Extender Typ K462-1W und K463-1W Remote Unit

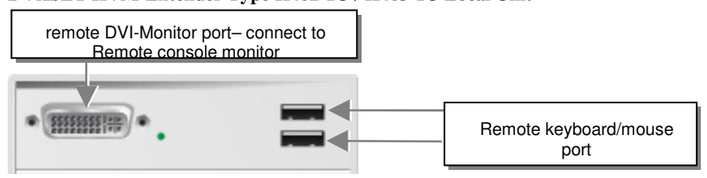

Connect to CPU: 2nd DVI-Graphic card
2nd local DVI-Monitor port Connect to Local console 2nd monitor
Local keyboard/ mouse port
Solely Keyboard may be plugged in directly, keyboard/mouse through equipped adapter
Connect to CPU: 1st DVI-Graphic card, keyboard, mouse
local DVI-Monitor port Connect to Local console monitor

DVXi/ET KVM-Extender Type K462-2W and k463-2W Local Unit

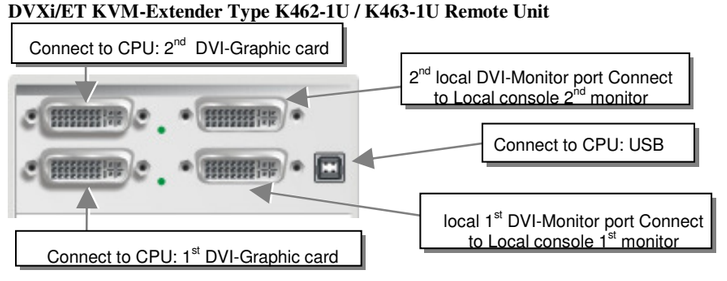

2nd remote DVI-Monitor port Connect to Remote console 2nd monitor
Remote keyboard port
Remote mouse port
1st remote DVI-Monitor port– connect to Remote console 1st monitor

DVXi/ET KVM-Extender Type K462-2W und K463-2W Remote Unit

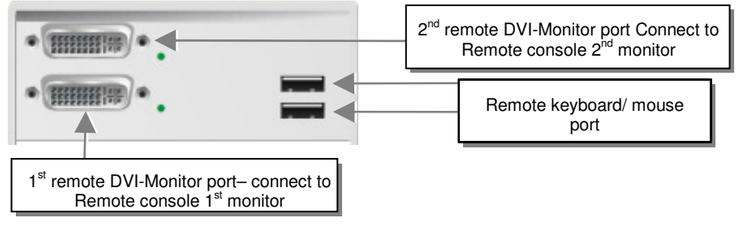
DVXi/ET KVM-Extender Type K462-1U / K463-1U Local Unit



DVXi/ET KVM-Extender Type K462-1U / K463-1U Remote Unit

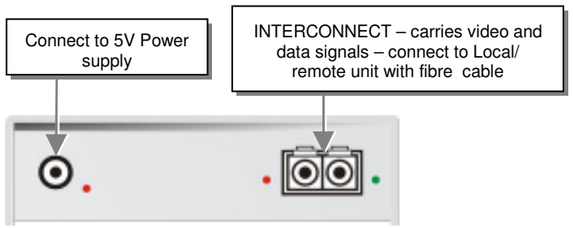

Connect to CPU: 2nd DVI-Graphic card
2nd local DVI-Monitor port Connect to Local console 2nd monitor
Connect to CPU: USB
local 1st DVI-Monitor port Connect to Local console 1st monitor
Connect to CPU: 1st DVI-Graphic card

DVXi/ET KVM-Extender Type K462-2U / K463-2U Local Unit

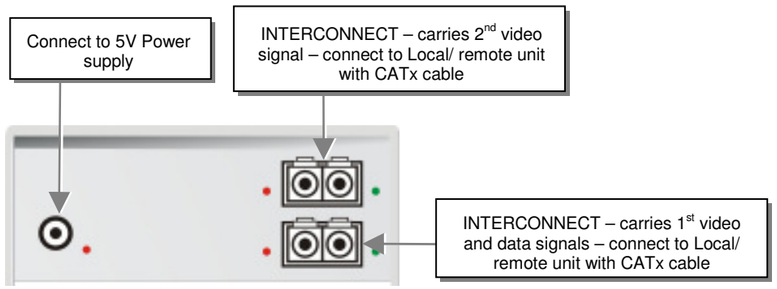

2nd remote DVI-Monitor port Connect to Remote console 2nd monitor
Remote keyboard/ mouse port
1st remote DVI-Monitor port– connect to Remote console 1st monitor

DVXi/ET KVM-Extender Type K462-2U / K463-2U Remote Unit

DVXI/ET-XM/-XS DVI- KVM-EXTENDER
DVXI/ET-XM/-XS DVI- KVM-EXTENDER



DVXi/ET KVM-Extender Type K462-1W, K462-1U, K463-1W and K463-1U Local/ Remote Unit

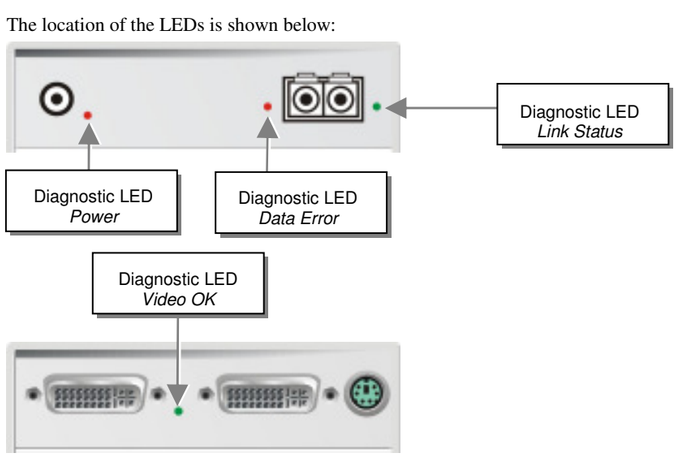

Connect to 5V Power supply
INTERCONNECT – carries 2nd video signal – connect to Local/ remote unit with CATx cable
INTERCONNECT – carries 1st video and data signals – connect to Local/ remote unit with CATx cable

DVXi/ET KVM-Extender Type K462-2W, K462-2U, K463-2W and K463-2U Local/ Remote Unit

3.1 Diagnostic LEDs

Each DVXi/ET KVM-Extender is fitted with four indicator LEDs: *Power, Video OK, Data Error, Link Status*: The *Power* LEDs are next to the Power socket.

The location of the LEDs is shown below:



Diagnostic - LEDs at DVXi/ET - Extender

LED	*Appearance*	*Diagnostics*
Power LED (Red LED)	Off On	Device not ready Device ready
Video Okay (Green LED)	Off On	No or invalid video signal detected Device ready
Link Status (Green LED)	blinking On	No CAT5 connection Device ready
Data Error (Red LED)	Off blinking / On	Device ready Errors through data transmission over CAT5 Cable (Cable too long, too high attenuation or too much EMI interferences)

4 Audio/serial option

No setting up or user adjustments are required. Please note that on the dual access model, the serial link is always active Please bear in mind that the Remote Unit's serial port is wired as DTE (i.e. the same as that on a PC). To connect a serial printer (or other DTE rather than DCE device) to the Remote Unit, you will need a Null-Modem (crossover) cable between the Remote Unit and the printer. Select Xon/Xoff software flow control on the printer and PC. A serial Touchscreen may be plugged directly into the Remote Unit.

5 Troubleshooting

Monitor

There isn't a picture.

Check the power supply connection at the Local and Remote unit. Is the *Power* (Red LED) at the Local and Remote unit illuminated? If not, the internal power-supply may be damaged or there may be an internal error.

Check that the Interconnection cable is connected at the Local Unit and the Remote Unit. Is the *Link Status* LED illuminated? If not, there may be a problem with the Interconnection cable:

Are there Errors through data transmission over fibre Cable (Cable too long, too high attenuation or too much EMI interferences)? Is the *Data Error* LED illuminated or blinking? If yes, check cable length and environment.

Video Okay LED is dark: CPU does not provide a video signal – Check settings of the graphic card. Try out, connecting a monitor to the local output, to see, whether there is a signal or not.

Keyboard

The PC boots fine with no error messages but the keyboard does not work at all

Wrong cable plugged in, keyboard and mouse cables reversed.

Try a different model of keyboard. If the new keyboard works then original one may be incompatible

Check that the Interconnection cable is connected at the Local Unit and the Remote Unit. Is the *Link Status* LED illuminated?

PS2-Mouse

A mouse cursor appears on the screen, but the mouse does not work

Wrong cable plugged in, keyboard and mouse cables reversed.

Try a different model of mouse

You have connected the Local unit while the CPU was running. Therefore you have connected first the keyboard cable and then the mouse cable. Disconnect the keyboard cable and connect it again. Please reboot you CPU if the mouse is still not running.

The system does not detect a PS/2 mouse, or the application cannot find the mouse.

Wrong cable plugged in, keyboard and mouse cables reversed.

Ensure that the Local Unit is connected to the PC keyboard port to provide power.

USB-Keyboard/USB-Mouse

Your USB-keyboard/USB-mouse does not work

Although we tried to design the devices as transparent as possible, we can't ensure that all devices are running. Please check in the manual the list of the tested devices.

USB-HID devices

Your USB-HID device does not work

Although our interface supports HID devices, we can't ensure that every connected device is running. In case of a malfunction please contact our technical support.

Other USB-devices

Your USB- device does not work

You have connected a non-HID device. There are supported HID devices only. All other devices are dismissed

DVXi/ET-xM /-xS DVI-KVM-Extender

Type:
K462-1W / K462-SA
K462-1U / K462-SA
K462-2W / K462-DA
K462-2U / K462-DU
K463-1W / K463-SA
K463-1U / K463-SA
K463-2W / K463-DA
K463-2U / K463-DU

(Quick Setup)